

REMARKS

Summary

Claims 1-9 and 11-33 were pending. In the present response, claims 6-10, 12-15, 21, and 26-33 are cancelled, claims 1, 5, 16, 19, 20, and 22-25 are amended. No new matter is added.

Accordingly, claims 1-5, 11, 16-20, and 22-25 are pending and under consideration.

Claim Rejections Under 35 USC 103

Claims 1, 2, 5-9, 11-23, 25-27, and 29-33

Claims 1, 2, 5-9, 11-23, 25-27, and 29-33 were rejected under 35 USC 103(a) over Liu et al. (US 5,696,940) in view of Flurry (US 5,684,968).

Claims 6-9, 12-15, 21, and 26-33 are cancelled thus obviating the rejections of those claims.

Amended claim 1 now recites, in pertinent part,

“copying image data of an image existing in an I/O RAM into an extra second copy of said image data in a buffer in main memory, by multiple calls to a memory copy function copying each image line of the image to a buffer line of the buffer;

performing CPU intensive operations on the extra second copy of the image data in main memory and not on the image data in said I/O RAM; and

after performing said CPU intensive operations, copying the operated on image data from the buffer in main memory to the I/O RAM, by multiple calls to the memory copy function copying each buffer line of the buffer to an image line.”

None of the cited references, individually or in combination, teaches or suggests to a person of ordinary skill in the art, to achieve the desired improved performance by copying the image data from the I/O RAM to main memory (prior to computing intensive processing) by multiple calls to a copy function copying “each image line in the I/O

RAM to a buffer line of a buffer in the main memory.” And similarly, upon processing, copying the operated on image data from the main memory to the I/O RAM by multiple calls to a copy function copying “each image line in the I/O RAM to a buffer line of a buffer in the main memory.”

Thus, for at least this reason, claim 1 is patentable over the combination of the cited references.

Claims 16 and 22 contain language similar to that of claim 1 and thus are patentable over the cited references for at least the same reasons discussed above.

Claims 2, 5, 11, 17-20, 23 and 25 are dependent on claims 1, 16 and 22, and thus are patentable over the cited references for at least the same reasons discussed above.

Claims 3 and 4

Claims 3 and 4 were rejected under 35 USC 103(a) over Liu et al. (US 5,696,940) in view of Flurry (US 5,684,968) and further in view of Anderson et al. (US 6,338,119).

Claims 3 and 4 are dependent on claim 1 and thus are patentable over Liu and Flurry for at least the same reasons discussed above. Anderson does not overcome the deficiencies of Liu and Flurry discussed above. Thus, claims 3 and 4 are patentable over Liu, Flurry, and Anderson for at least the same reasons discussed above.

Claims 24 and 28

Claims 24 and 28 were rejected under 35 USC 103(a) over Liu et al. (US 5,696,940) in view of Flurry (US 5,684,968) and further in view of Cullen et al. (US 6,592,629).

The rejection of claim 28 has been rendered moot by its cancellation.

Claim 24 is dependent on claim 22 and thus is patentable over Liu and Flurry for at least the same reasons discussed above. Cullen does not overcome the deficiencies of Liu and Flurry discussed above. Thus, claim 24 is patentable over Liu, Flurry, and Cullen for at least the same reasons discussed above.

Conclusion

In view of the foregoing, Applicant respectfully submits that claims 1-5, 11, 16-20, and 22-25 are in condition for allowance, and early issuance of the Notice of Allowance is respectfully requested.

If the Examiner has any questions, the Examiner is invited to contact the undersigned at (503) 796-2844. Please charge any shortages and credit any overages to Deposit Account No. 500393.

Respectfully submitted,
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